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Product datasheet

Lysyl Oxidase Activity Assay Kit (Fluorometric) ab112139

34 References 画像数 4

製品の概要

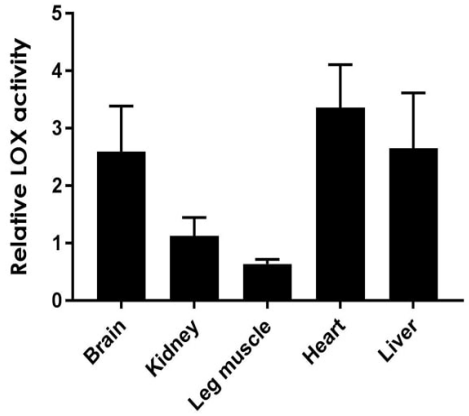
製品名	Lysyl Oxidase Activity Assay Kit (Fluorometric)
検出方法	Fluorescent
サンプルの種類	Cell culture supernatant, Cell culture extracts, Tissue Extracts
アッセイタイプ	Semi-quantitative
検出感度	40 ng/well
全工程の試験時間	0h 30m
製品の概要	Lysyl Oxidase Activity Assay Kit / LOX Activity Assay Kit (Fluorometric) (ab112139) provides a simple method to measure lysyl oxidase (LOX) activity in cell and tissue extracts from mammals and other species, as well as physiological solutions. The LOX activity assay protocol uses a proprietary LOX substrate that releases hydrogen peroxide upon transformation by the LOX present in the sample. Hydrogen peroxide is in turn detected using a red fluorescence substrate for HRP-coupled reactions. This leads to increase in fluorescence that can be easily detected at Ex/Em = 540/590 nm in a fluorescence microplate reader. This assay is semi-quantitative as it does not contain a LOX standard for calibration. When a known concentration of LOX is used, the assay can detect activity from as low as 40 ng of lysyl oxidase in solution. The assay is highly sensitive and its unique detection method eliminates the interference that occurs in certain biological samples.
特記事項	Lysyl oxidase (protein-lysine-6-oxidase, LOX, EC 1.4.3.13) is an extracellular copper-dependent enzyme that catalyzes formation of aldehydes from lysine residues in collagen and elastin precursors. The activity of Lysyl oxidase in biological samples is traditionally assessed by tritium release end-point assays using radio isotope labeled collagen or elastin substrates.
試験プラットフォーム	Microplate reader

製品の特性

保存方法 Store at -20°C. Please refer to protocols.

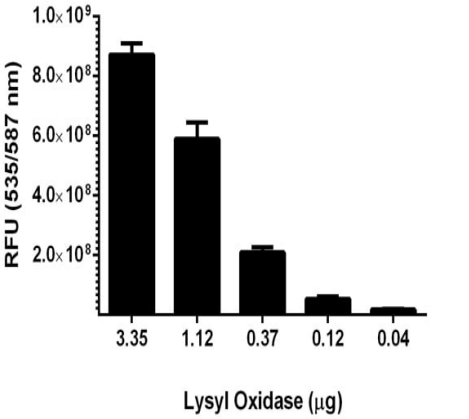
内容	500 tests
Assay Buffer	1 x 50ml
DMSO	1 x 200µl
Horseradish Peroxidase	1 vial
HRP Substrate	1 vial

画像



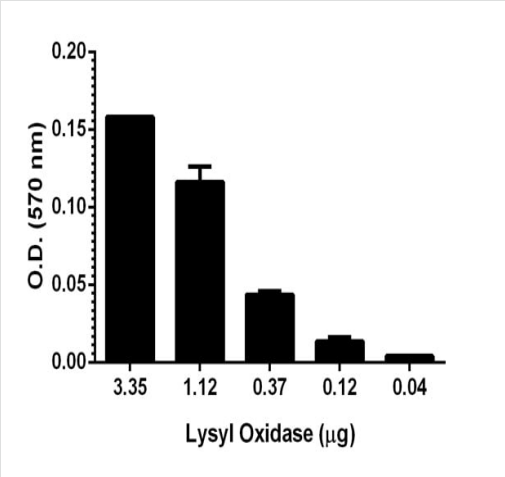
Lysyl Oxidase Activity Assay Kit (Fluorometric) (ab112139)

Relative LOX activity levels in mouse tissue. Tissue samples were prepared following assay protocol. Protein concentration was determined and samples were diluted 2-30 fold. LOX activity levels were measured after 15 minutes incubation in a fluorometric plate reader at Ex/Em = 535/587 nm. LOX activity levels are relative to background noise (blank control).



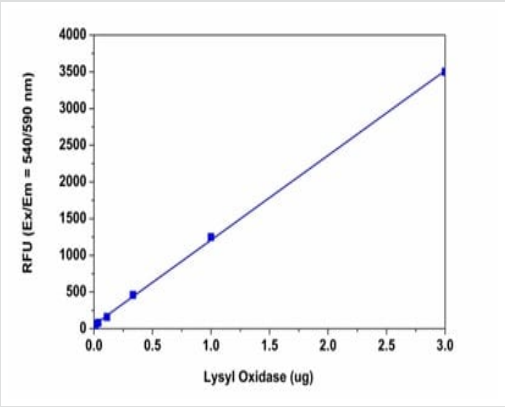
Functional Studies - Lysyl Oxidase Activity Assay Kit (Fluorometric) (ab112139)

LOX activity fluorescence (RFU) values vs quantity (µg). Recombinant human LOX2 was serially diluted 3.35-0.04 (1/3) and activity was measured following assay procedure.



Functional Studies - Lysyl Oxidase Activity Assay Kit (Fluorometric) (ab112139)

LOX activity absorbance (OD) values vs quantity (µg). Recombinant human LOX2 was serially diluted 3.35-0.04 (1/3) and activity was measured following assay procedure. Colorimetric detection is approximately 10-times lower than fluorometric.



Lysyl Oxidase Activity Assay Kit (Fluorometric) (ab112139)

Typical lysyl oxidase (LOX) dose response curve. Known amounts of LOX were added to wells and reaction was run following assay protocol. Fluorescence was measured on a solid black 96-well plate using a Gemini fluiorescence microplate reader (Molecular Devices). Activity from as low as 40 ng/mL of LOX can be detected after 30 minutes incubation.

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